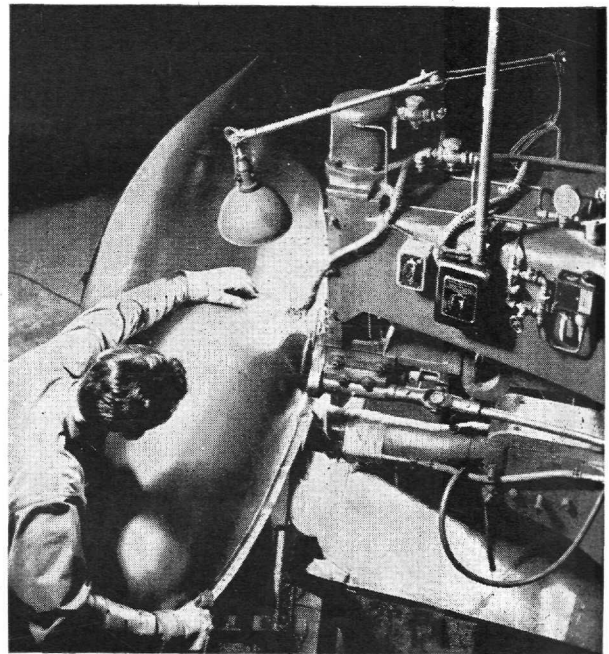
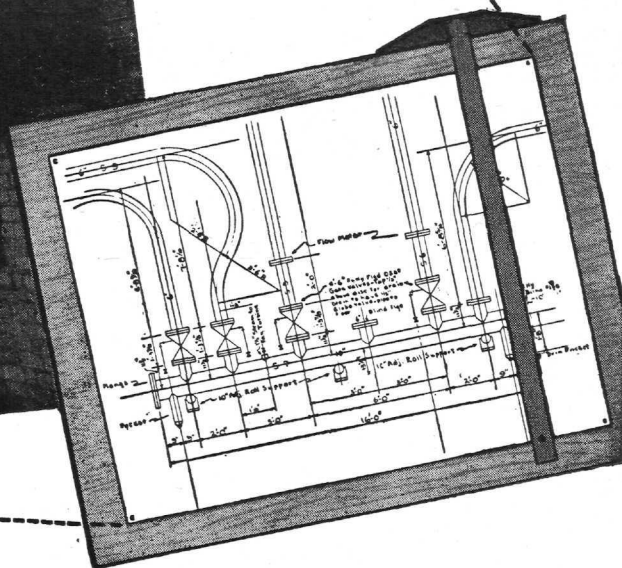
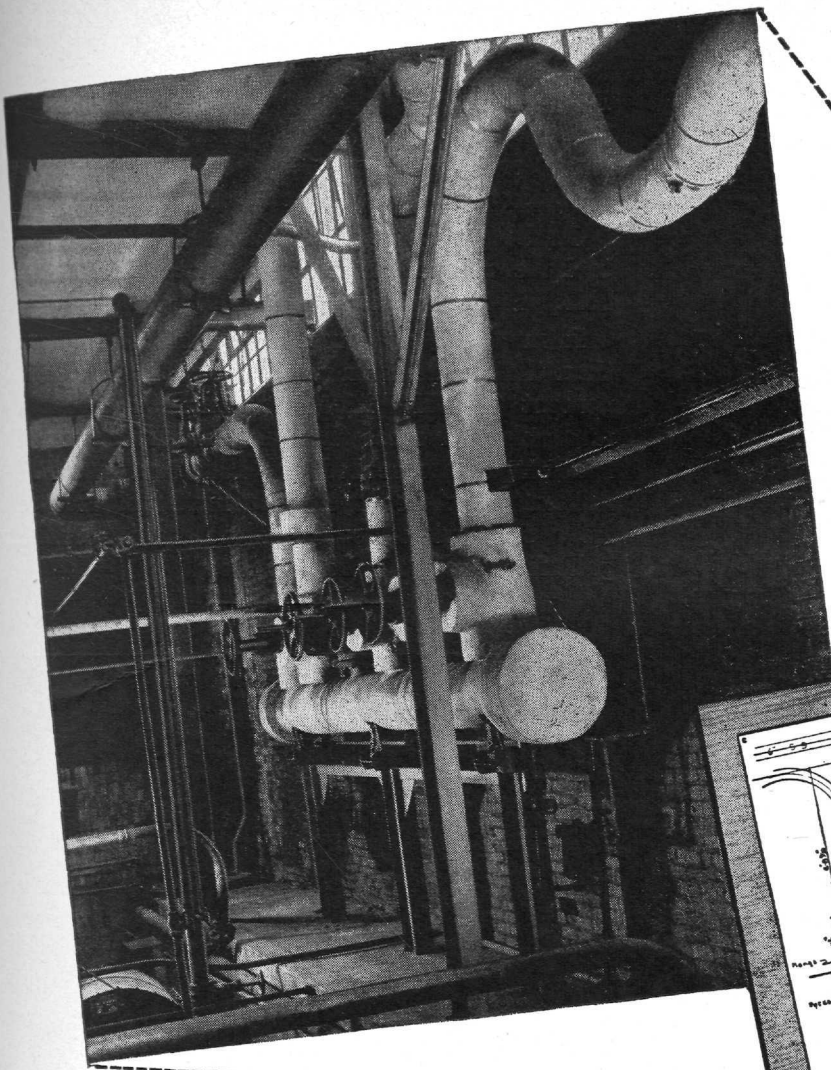

"Stitched" Tanks Enable Fighter Planes to Span Oceans



—Courtesy General Electric

Auxiliary steel gasoline tanks like the one shown above, being "stitched" together electronically, are enabling fighter planes to fly across oceans directly to fighting zones. Two of the streamlined tanks are attached, like pontoons, to a Lightning P-38 and, when empty, can be dropped off to give the plane additional speed. By making a seam so tight that no gasoline can escape, the resistance welding machine shown in operation permits the substitute of steel for war-scarce aluminum. The welding machine welds two halves of a tank together in four minutes.



PIPING is more than a line on a blueprint...

TRANSLATING a piping blueprint into terms of pipe sizes—kinds of fittings—types of valves will have much to do with determining whether an engineering project is a success or a failure. For almost any project is inconceivable without piping, which controls the flow of air, gas, steam, water, oil or other liquids.

You are probably familiar with the high quality—the precise manufacture—that characterizes valves and fittings made by Crane. You may not know that the Crane line includes equipment for *every need of every piping system everywhere.*

Writing "Crane" on a complete piping specification has many advantages to the engineer. First: He knows that every item in the system will come from one source, saving valuable time all down the line from drafting room to final assembly. Second: The project will have a matched piping system—with all parts designed to work together. But, above all, he is assured of the long life and satisfactory operation that come from the exact design and high quality that are a part of every piping item carrying the name Crane.

CRANE CO., 836 S. Michigan Avenue, Chicago 5, Illinois.

HERE'S ENGINEERING DATA TO HELP YOU



Crane engineers have prepared a number of important books and treatises on piping equipment and piping systems. These include the Crane Catalog, listing more than 48,000 different piping items and containing valuable engineering data—Piping Pointers Manual, packed with information on piping installation and maintenance—Flow of Fluids and Combating Corrosion, two technical papers of value to anyone laying out pipe lines.

*On file for reference
in Engineering Library*

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**VALVES • FITTINGS • PIPE
PLUMBING • HEATING • PUMPS**